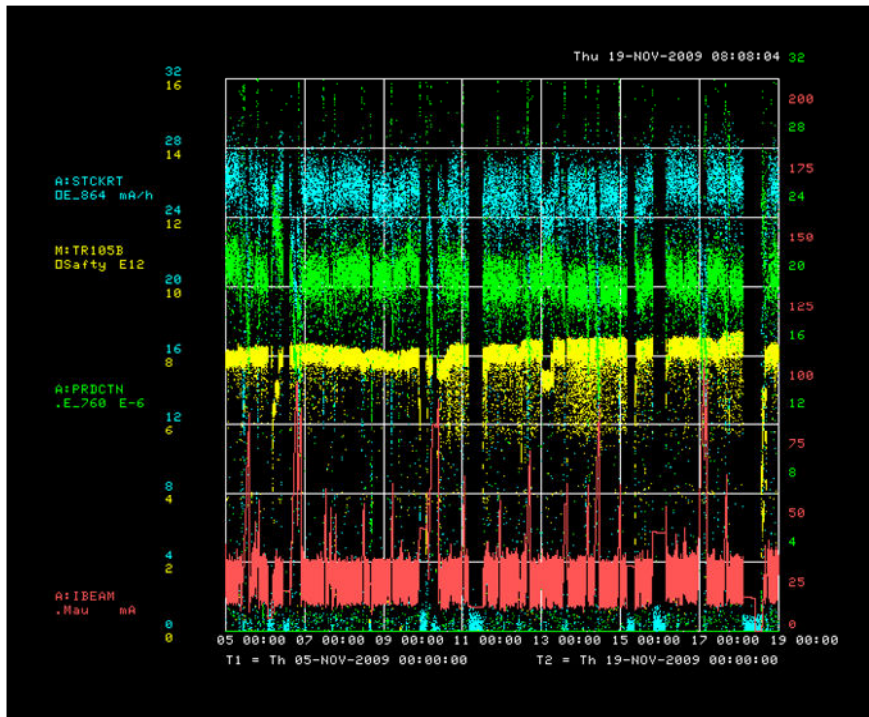


2009-11-19 Pbar Department Meeting

Thursday, November 19, 2009
9:59 AM



- Topics
 - Stacking
 - TCLK missing (repeater)
 - Beam lost and could have damaged....
 - Ramps were not going
 - Beam slamming into HV100
 - Proton Spot Size
 - Worked on spot size.
 - +10A change on Q108 to get the same yield at present setting
 - <http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar09&action=view&page=278&anchor=155439&hilite=15:54:39->
 - SEM status
 - SEM module in alcove with SEM attached.
 - Next step is to have alignment come in. Aligned can to wires already, now want to align can to rails.
 - Want to use motion control
 - Lens Trips
 - New parameter for 24V supply that does 3 flow meters and level detector.
 - Dave and Bernie had some instrumentation to trap error.
 - Problem happened last night, no smoking gun
 - Maybe we should monitor current in ps.
 - Lens 4
 - Filled 2 lenses in a month
 - Lens 8 installed in transformer and tested
 - Now don't have a transformer for lens 4
 - So, taking lens 8 out, and put lens 4 in.
 - New transformer in January

- There is also transformer for lens 6, which failed after 2 weeks.
 - DRF1 (-3)
 - Looking fine now
 - Changed one tube
 - Debuncher cooling ramps
 - The cooling ramps for transverse worked on
 - Can't get enough watts.
 - Watts drop as time, ramp attenuator down to keep power up
 - If things are bad, tweak them up.
 - Deb HB2 & HB4
 - Band 2 - 4dB access
 - Horizontal band 4, that has the worse problem with power balancing.
 - Tube 1 needed several dB removed.
 - Tube 3 was running right at trip limit, while tube 1 was half that.
 - Momentum band 1 is the next one. Tube 2 at 35W, and another tube near to trip.
 - Debuncher Studies
 - Tune
 - ◆ Move vertically away from the 3/4
 - ◆ Debuncher beam intensity up
 - ◆ Could not improve cooling
 - Cooling Time & Beam Intensity
 - ◆ Trying to disentangle inefficiencies
 - SEM806 (new vs old hardware)
 - Giving them a lot of data show new profiles not robust...
 - Sigma calculations vary quite a bit
 - Stacktail (monitor)
 - Balance stack as hard can vs emittance
 - Turned off two more TWTs, helped emittances without hurting stacking
 - Core Vertical Pickup motorized stand
 - Gearbox flipped on vertical tank
 - A:CV1T1 readback?
 - Readback went from 74 to 68, then back to 72???
 - Accumulator cooling studies
- Transfers
 - ARF4
 - Fixed
 - ENI was replaced.
 - ELAM Position
 - DVM noticed that the line coming out of lambertson doesn't line up with cmagnet
 - Tested move in tunnel
 - Longitudinal Emittance
 - It big!
 - Its been big since the 11th.
 - Lowered the request, and it made not noticeable difference.
 - Its real since MI and RR can see it.
 - Take out the same or slightly more now.
 - Q107
 - 8 GeV Optics studies
 - Data is taken
 - Analysis is being done.
- A3B7
 - Last 24 hours worse.
 - Magnet test facility